

E. KOTTERMAN.
 LOCK FOR PAPER BOXES.
 APPLICATION FILED AUG. 1, 1921.

1,424,830.

Patented Aug. 8, 1922.

FIG. 1

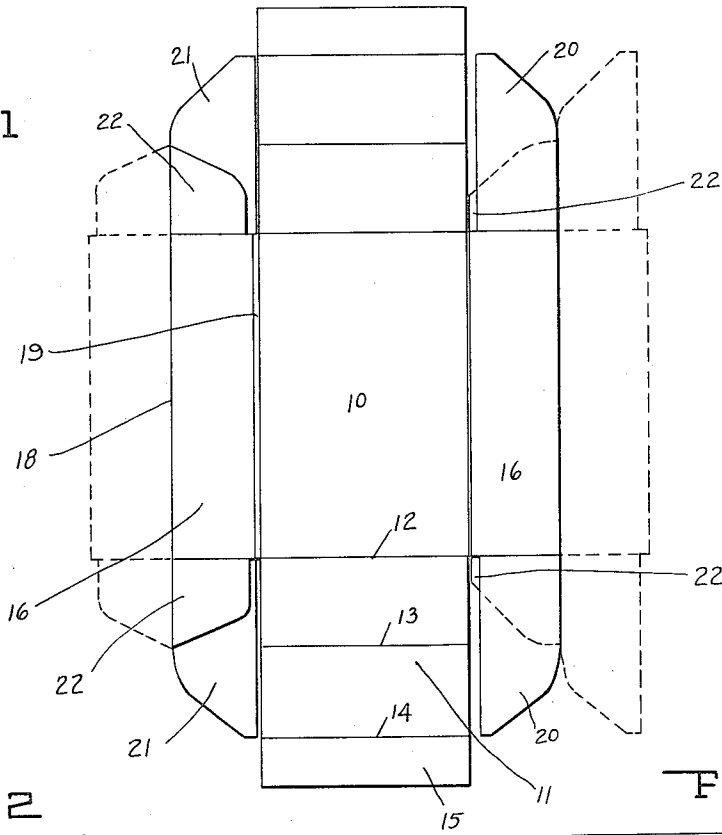


FIG. 2

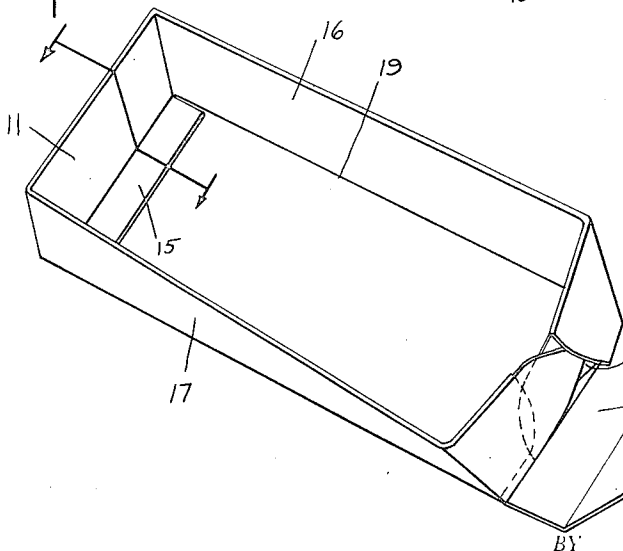
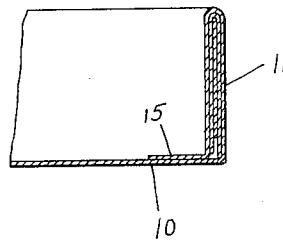


FIG. 3



23
 11
 15 INVENTOR.
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UNITED STATES PATENT OFFICE.

EUGENE KOTTERMAN, OF MARION, INDIANA, ASSIGNOR TO INTERNATIONAL PRINTING COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION.

LOCK FOR PAPER BOXES.

1,424,830.

Specification of Letters Patent.

Patented Aug. 8, 1922.

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To all whom it may concern:

Be it known that I, EUGENE KOTTERMAN, a citizen of the United States, and a resident of Marion, county of Grant, and State of Indiana, have invented a certain new and useful Lock for Paper Boxes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

This invention relates to a paper box. The chief object of the invention is to provide a paper box which may be formed from a single blank with suitable locking portions, whereby the box blank, when the parts have been moved into the box forming position, will be locked in said last mentioned position.

The chief feature of the invention consists in the particular locking means provided for the box blank.

The full nature of this invention will be understood from the accompanying drawings and the following description and claims.

In the drawings Fig. 1 is a plan view of the box blank with a portion thereof folded. Fig. 2 is a perspective view of the box blank showing a portion thereof in box forming position and one end thereof in an intermediate locking position. Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 2 and in the direction of the arrows and shows the locking connection.

In the drawings 10 indicates the bottom, base or body portion of the box blank which is herein provided with a pair of sides and a pair of ends. Each of the ends are substantially identical and, therefore, a description of one will suffice. The end is herein indicated by the numeral 11 and is preferably integral with the body portion 10, being provided with a crease 12 between the end and the body portion. The end is also provided with a parallel crease 13 and another parallel crease 14. The parallel crease 13 insures that the end 11 may be doubled back upon itself to form a strong construction, with the free end 15 thereof, is adapted to be secured to the body portion 12 by suitable means, such as adhesive material and the like, and is adapted to be positioned as shown in Fig. 3.

The box blank also is provided with a pair of integral sides, each of which comprise an

inner side member 16 and an outer side member 17, said members being connected by a crease portion indicated by the line 18 in Fig. 1, whereby the inner and outer side portions are folded back upon themselves. If desired these may be secured together by suitable means such as adhesive and the like. The outer side portion 17 is likewise connected to the body portion 10 by the crease connection 19.

Each of the sides is provided with a locking construction. The sides at each end are provided with substantially similar locking portions, but herein the preferred arrangement is that one of the sides is provided with identical locking portions, while the other end is provided with similar but complementarily positioned locking portions. This construction is clearly illustrated in Fig. 1 and in the open end of Fig. 2. Thus, one of the sides upon the inner side portion 16 is provided with a projecting portion 20, while the other side upon its outer side portion is provided with a projecting portion 21. It is to be understood that the projecting portions 21 and 20 are at least equal in length, and preferably are greater than one half the width of the end portion 11 of the box blank. Associated with each of the projecting portions 20 and 21 is a similar portion 22 which portion 22, when folded back upon the projecting portion 20 or 21, when the sides are folded along the edge 18, form a pocket 23 adapted to receive the opposite projecting portion, as shown clearly in Fig. 2. After the projecting portions 20 and 21 of opposite sides and adjacent ends have been positioned in the respective adjacent pockets 23, the same form a dual locking construction and after being so positioned, as shown in Fig. 3, the end 11 is bent upwardly to form the outer side of said end of the complete box and the remainder of the end portion 11 is turned inwardly to form the inner side of said end, while the free end 15 of the end portion 11 is suitably secured to the body portion 10 as by means of adhesive, thereby forming a locked and rigid construction.

Any suitable cover means may be associated with the box, such as a similar box adapted to telescope the box construction herein described.

The invention claimed is:

1. A box construction including a body

portion and double sides and ends, a flap
on each end of said sides, and a pocket
formed on each end of said sides by doubling
the same, said flap and pocket being of such
5 form that when doubled each end of a side
is provided with a projecting tongue and
pocket so that the tongue on one end of one
of said sides will extend into and be en-
closed within the adjacent pocket on the
10 same end of the opposite side for providing
a dual lock construction.

2. A box construction including a body
portion and double sides and ends, a flap on
each end of said sides, and of such form that

when doubled each end of a side is provided 15
with a projecting tongue and adjacent pocket
portion to provide a dual lock construction.

3. A box construction including a body
portion and double sides, a flap on each end
of said sides, and of such form that when 20
doubled each end of a side is provided with
a projecting tongue and adjacent pocket por-
tion to provide a dual lock construction, and
ends secured to the body portion to enclose
said interlocking construction. 25

In witness whereof, I have hereunto affixed
my signature.

EUGENE KOTTERMAN.